



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 163655

TO: Nita M Minnifield
Location: REM/3C01/3C18
Art Unit: 1645
Friday, September 02, 2005
Case Serial Number: 09/830839

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: 571-272-2523

toby.port@uspto.gov

Search Notes

Examiner Minnifield,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port
X22523



THIS PAGE BLANK (USPTO)



STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or *contact:*

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library, Remsen Bldg.



THIS PAGE BLANK (USPTO)

STIC-Biotech/ChemLib

163655

From: Minnifield, Nita
Sent: Wednesday, August 24, 2005 12:46 PM
To: STIC-Biotech/ChemLib
Subject: interference sequence search request

09/830839

STIC

Please do an interference sequence search on SEQ ID NO: 1 and 6 of this application.

Please provide a paper copy of all results.

Thanks,
Minnifield,
71976
Art Unit 1645
Office REM-3C01
Mailbox REM-3C18
571-272-0860

STIC-Biotech/ChemLib
08/24/2005
12:46 PM

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2-_____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: _____ AA#: _____
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 23:40:16 ; Search time 30 Seconds
(without alignments)
37.325 Million cell updates/sec

Title: US-09-830-839-1

Perfect score: 79

Sequence: 1 MTEQQWNFAGIEAAA 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*

1: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*

2: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*

3: /cgn2_6/prodata/1/iaa/6A_COMB.pep:*

4: /cgn2_6/prodata/1/iaa/6B_COMB.pep:*

5: /cgn2_6/prodata/1/iaa/6CTUS_COMB.pep:*

6: /cgn2_6/prodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	79	100.0	51	3	US-08-818-112-104
2	79	100.0	51	3	US-08-818-111-99
3	79	100.0	51	3	US-09-056-556-104
4	79	100.0	51	4	US-09-072-596-99
5	79	100.0	51	4	US-09-072-967-104
6	79	100.0	95	2	US-08-465-640-2
7	79	100.0	403	4	US-09-050-739-173
8	79	100.0	404	4	US-09-050-739-172
9	52	65.8	10	3	US-09-001-984C-77
10	52	65.8	10	4	US-09-396-347F-77
11	42	53.2	409	4	US-09-198-452A-554
12	42	53.2	413	1	US-08-579-667-4
13	42	53.2	413	4	US-09-438-185A-515
14	42	53.2	578	4	US-09-949-016-9799
15	41	51.9	176	4	US-09-462-842-3
16	41	51.9	176	4	US-09-393-171-3
17	40	50.6	295	4	US-09-602-777A-416
18	39	49.4	538	4	US-09-252-991A-18026
19	39	49.4	928	4	US-09-252-991A-24200
20	38	48.1	155	3	US-08-685-808-3
21	38	48.1	155	3	US-08-505-860C-3
22	38	48.1	349	4	US-09-489-039A-13578
23	38	48.1	410	1	US-08-579-667-2
24	38	48.1	410	1	US-08-579-667-6
25	38	48.1	410	1	US-08-579-667-8
26	38	48.1	795	4	US-09-252-991A-30635
27	38	48.1	2293	3	US-09-368-590-2

28	38	48.1	2600	4	US-09-949-016-7309	Sequence 7309, Ap
29	37	46.8	331	4	US-09-489-039A-9639	Sequence 9639, Ap
30	37	46.8	435	4	US-09-252-991A-23220	Sequence 23220, A
31	37	46.8	493	4	US-09-540-236-2120	Sequence 2120, Ap
32	37	46.8	668	4	US-09-538-092-599	Sequence 599, App
33	37	46.8	820	4	US-09-134-000C-6437	Sequence 6437, Ap
34	36.5	46.2	934	1	US-08-215-805A-80	Sequence 80, Appl
35	36	45.6	88	4	US-09-270-767-33601	Sequence 33601, A
36	36	45.6	88	4	US-09-270-767-48818	Sequence 48818, A
37	36	45.6	149	4	US-09-489-039A-8963	Sequence 8963, Ap
38	36	45.6	149	4	US-09-904-615-155	Sequence 155, App
39	36	45.6	221	4	US-09-724-623-113	Sequence 113, Appl
40	36	45.6	282	4	US-09-270-957-4	Sequence 4, Appl
41	36	45.6	376	4	US-09-270-957-19	Sequence 19, Appl
42	36	45.6	376	4	US-09-902-540-9896	Sequence 9896, Ap
43	36	45.6	470	4	US-09-149-727-2	Sequence 2, Appl
44	36	45.6	602	3	US-09-270-957-2	Sequence 2, Appl
45	36	45.6	602	4	US-09-270-957-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1

US-08-818-112-104
; Sequence 104, Application US/08818112
; Patent No. 6290969
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skelky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,112
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-818-112-104

Query Match 100.0%; Score 79; DB 3; Length 51;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15
Db 1 MTEQOWNFAGIEAAA 15

RESULT 2

US-08-818-111-99
; Sequence 99, Application US/08818111
; Patent No. 6338852
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,111
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C6
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-818-111-99

Query Match 100.0%; Score 79; DB 3; Length 51;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15
Db 1 MTEQOWNFAGIEAAA 15

RESULT 3

US-09-056-556-104
; Sequence 104, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; TREATMENT OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle

; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-APR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-056-556-104

Query Match 100.0%; Score 79; DB 3; Length 51;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15

Db 1 MTEQOWNFAGIEAAA 15

RESULT 4

US-09-072-596-99
; Sequence 99, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-99

Query Match 100.0%; Score 79; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15
|||||

DB 1 MTEQOWNFAGIEAAA 15
|||||

RESULT 5
US-09-072-967-104

Sequence 104, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 104:

SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-104

Query Match 100.0%; Score 79; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15
|||||

DB 1 MTEQOWNFAGIEAAA 15
|||||

RESULT 6
US-08-465-640-2

Sequence 2, Application US/08465640
Patent No. 5955077
GENERAL INFORMATION:
APPLICANT: ANDERSEN, Peter
APPLICANT: ANDERSEN, Ase Bengaard
APPLICANT: HASLOV, Kaare
APPLICANT: SORENSEN, Anne Lund
TITLE OF INVENTION: TUBERCULOSIS VACCINE
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Browdy and Neimark
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,640
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,182
FILING DATE: 20-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/DK94/00273
FILING DATE: 01-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, IVER P
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: ANDERSEN=3A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-640-2

Query Match 100.0%; Score 79; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15
|||||

DB 1 MTEQOWNFAGIEAAA 15
|||||

RESULT 7
US-09-050-739-173

Sequence 173, Application US/09050739
Patent No. 6641814
GENERAL INFORMATION:
APPLICANT: ANDERSEN, Peter
APPLICANT: NIELSEN, Rikke
APPLICANT: OTTINGER, Thomas
APPLICANT: RASMUSSEN, Peter Birk
APPLICANT: ROSENKRANDS, Ida
APPLICANT: WELDLINGH, Karin
APPLICANT: FLORIO, Walter
TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS

```
; TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/050,739
; CURRENT FILING DATE: 1998-03-30
; EARLIER APPLICATION NUMBER: 0376/97
; EARLIER FILING DATE: 1997-04-02
; EARLIER APPLICATION NUMBER: 1277/97
; EARLIER FILING DATE: 1997-11-10
; EARLIER APPLICATION NUMBER: 60/044,624
; EARLIER FILING DATE: 1997-04-18
; EARLIER APPLICATION NUMBER: 60/070,488
; EARLIER FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 173
; LENGTH: 403
; TYPE: PRF
; ORGANISM: Mycobacterium tuberculosis
US-09-050-739-173

Query Match      100.0%; Score 79; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 6.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MTEQQWNFAGIEAAA 15
Db      22 MTEQQWNFAGIEAAA 36

RESULT 8
US-09-050-739-172
; Sequence 172, Application US/09050739
; Patent No. 6641814
; GENERAL INFORMATION:
; APPLICANT: ANDERSEN, Peter
; APPLICANT: NIELSEN, Rikke
; APPLICANT: OTTINGER, Thomas
; APPLICANT: RASMUSSEN, Peter Birk
; APPLICANT: ROSENKRANDS, Ida
; APPLICANT: WELDINGH, Karin
; APPLICANT: FLORIO, Walter
; TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS
; TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/050,739
; CURRENT FILING DATE: 1998-03-30
; EARLIER APPLICATION NUMBER: 0376/97
; EARLIER FILING DATE: 1997-04-02
; EARLIER APPLICATION NUMBER: 1277/97
; EARLIER FILING DATE: 1997-11-10
; EARLIER APPLICATION NUMBER: 60/044,624
; EARLIER FILING DATE: 1997-04-18
; EARLIER APPLICATION NUMBER: 60/070,488
; EARLIER FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 172
; LENGTH: 404
; TYPE: PRF
; ORGANISM: Mycobacterium tuberculosis
US-09-050-739-172

Query Match      100.0%; Score 79; DB 4; Length 404;
Best Local Similarity 100.0%; Pred. No. 6.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MTEQQWNFAGIEAAA 15
Db      310 MTEQQWNFAGIEAAA 324

RESULT 9
US-09-001-984C-77
```

```
; Sequence 77, Application US/09001984C
; Patent No. 6245331
; GENERAL INFORMATION:
; APPLICANT: Laal, Suman
; APPLICANT: Zolla-Pazner, Susan
; APPLICANT: Belisle, John T
; TITLE OF INVENTION: EARLY DETECTION OF MYCOBACTERIAL DISEASE
; FILE REFERENCE: NYU-011
; CURRENT APPLICATION NUMBER: US/09/001,984C
; CURRENT FILING DATE: 1997-12-31
; PRIOR APPLICATION NUMBER: 60/034,003
; PRIOR FILING DATE: 1996-12-31
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 77
; LENGTH: 10
; TYPE: PRF
; ORGANISM: Mycobacterium tuberculosis strain H37Rv
US-09-001-984C-77

Query Match      65.8%; Score 52; DB 3; Length 10;
Best Local Similarity 90.0%; Pred. No. 0.0051;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 TEQQWNFAGI 11
Db      1 TEQQWNFAGI 10

RESULT 10
US-09-396-347F-77
; Sequence 77, Application US/09396347F
; Patent No. 6506384
; GENERAL INFORMATION:
; APPLICANT: Laal, Suman
; APPLICANT: Zolla-Pazner, Susan
; APPLICANT: Belisle, John T
; TITLE OF INVENTION: EARLY DETECTION OF MYCOBACTERIAL DISEASE
; FILE REFERENCE: 32004-169276
; CURRENT APPLICATION NUMBER: US/09/396,347F
; CURRENT FILING DATE: 1999-09-14
; PRIOR APPLICATION NUMBER: 09/001,984
; PRIOR FILING DATE: 1997-12-31
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 77
; LENGTH: 10
; TYPE: PRF
; ORGANISM: Mycobacterium tuberculosis strain H37Rv
US-09-396-347F-77

Query Match      65.8%; Score 52; DB 4; Length 10;
Best Local Similarity 90.0%; Pred. No. 0.0051;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 TEQQWNFAGI 11
Db      1 TEQQWNFAGI 10

RESULT 11
US-09-198-452A-554
; Sequence 554, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
```

```
; SEQ ID NO 554
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-554

Query Match      53.2%; Score 42; DB 4; Length 409;
Best Local Similarity 77.8%; Pred. No. 22;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      6 WNFAGIEAA 14
DB      345 WNYLGIEAA 353

RESULT 12
US-08-579-667-4
; Sequence 4, Application US/08579667
; Patent No. 5705624
; GENERAL INFORMATION:
; APPLICANT: Fitzmaurice, Wayne P.
; APPLICANT: Hellmann, Gary M.
; APPLICANT: Grill, Laurence K.
; APPLICANT: Kumagai, Monto H.
; APPLICANT: Della-Cioppa, Guy R.
; TITLE OF INVENTION: DNA SEQUENCES ENCODING ENZYMES USEFUL IN
; TITLE OF INVENTION: PHYTOENE BIOSYNTHESIS
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Virginia C. Bennett
; STREET: 1211 East Morehead Street, PO Drawer 34009
; CITY: Charlotte
; STATE: No. 5705624th Carolina
; COUNTRY: USA
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/579,667
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Bennett, Virginia C.
; REGISTRATION NUMBER: 37,092
; REFERENCE/DOCKET NUMBER: 627-196
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 413 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-579-667-4

Query Match      53.2%; Score 42; DB 1; Length 413;
Best Local Similarity 50.0%; Pred. No. 22;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      3 EQQWNFAGIEAA 14
DB      50 EQMNFSGVSKA 61

RESULT 13
US-09-438-185A-515
; Sequence 515, Application US/09438185A
; Patent No. 6822071
; GENERAL INFORMATION:
; APPLICANT: Stephens, Richard
; APPLICANT: Mitchell, Wayne
; APPLICANT: Kalman, Sue
; APPLICANT: Davis, Ronald
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
; FILE REFERENCE: 018941-000411US
; CURRENT APPLICATION NUMBER: US/09/438,185A
; CURRENT FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: US 60/108,279
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/128,606
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 1074
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 515
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; OTHER INFORMATION: Cpn0513
US-09-438-185A-515

Query Match      53.2%; Score 42; DB 4; Length 413;
Best Local Similarity 77.8%; Pred. No. 22;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      6 WNFAGIEAA 14
DB      349 WNYLGIEAA 357

RESULT 14
US-09-949-016-9799
; Sequence 9799, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9799
; LENGTH: 578
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9799

Query Match      53.2%; Score 42; DB 4; Length 578;
Best Local Similarity 50.0%; Pred. No. 32;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      2 TEQQWNFAGIEAAA 15
DB      26 SDWQWDSAGVEVAA 39

RESULT 15
US-09-462-842-3
; Sequence 3, Application US/09462842
; Patent No. 6521421
; GENERAL INFORMATION:
; APPLICANT: Quax, Wilhelmus J.
; APPLICANT: Caldwell, Robert M.
```

```
; TITLE OF INVENTION: Increasing Production of Proteins in Gram-Positive
; TITLE OF INVENTION: Microorganisms
; FILE REFERENCE: GC383-US
; CURRENT APPLICATION NUMBER: US/09/462,842
; CURRENT FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: PCT/US98/14704
; PRIOR FILING DATE: 1998-07-15
; PRIOR APPLICATION NUMBER: EP 97305288.9
; PRIOR FILING DATE: 1997-07-15
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-462-842-3

Query Match      51.9%; Score 41; DB 4; Length 176;
Best Local Similarity 60.0%; Pred. No. 12;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      3 EQQWNPAGIE 12
      |:|:|:|:|
Db      132 ERQWDFLGL 141

Search completed: August 27, 2005, 00:04:22
Job time : 31 secs
```

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 23:58:53 ; Search time 111.5 Seconds
(without alignments)
52.860 Million cell updates/sec

Title: US-09-830-839-6

Perfect score: 77

Sequence: 1 MNFAGIERAASAIQ 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	77	100.0	15	14	US-10-079-167-80
2	77	100.0	15	15	US-10-345-000-2
3	77	100.0	20	9	US-09-813-333-60
4	77	100.0	20	13	US-10-044-703-60
5	77	100.0	20	15	US-10-239-103-60
6	77	100.0	51	11	US-09-886-349A-33
7	77	100.0	51	14	US-10-193-002-99
8	77	100.0	51	14	US-10-084-843-104
9	77	100.0	51	14	US-10-098-732A-33
10	77	100.0	51	20	US-11-028-898-104
11	77	100.0	51	20	US-11-082-005-99
					Sequence 80, Appl
					Sequence 2, Appl
					Sequence 60, Appl
					Sequence 60, Appl
					Sequence 60, Appl
					Sequence 33, Appl
					Sequence 99, Appl
					Sequence 104, Appl
					Sequence 33, Appl
					Sequence 104, Appl

12	77	100.0	95	9	US-09-805-427A-1	Sequence 1, Appli
13	77	100.0	95	11	US-09-872-505-1	Sequence 1, Appli
14	77	100.0	95	16	US-10-332-512A-12	Sequence 12, Appl
15	77	100.0	95	18	US-10-689-921-18	Sequence 18, Appl
16	77	100.0	403	9	US-09-791-171-173	Sequence 173, App
17	77	100.0	403	9	US-09-805-427A-4	Sequence 4, Appli
18	77	100.0	403	10	US-09-804-980-173	Sequence 173, App
19	77	100.0	403	11	US-09-872-505-4	Sequence 4, Appli
20	77	100.0	403	16	US-10-620-246-173	Sequence 173, App
21	77	100.0	404	9	US-09-791-171-172	Sequence 172, App
22	77	100.0	404	9	US-09-805-427A-3	Sequence 3, Appli
23	77	100.0	404	10	US-09-804-980-172	Sequence 172, App
24	77	100.0	404	11	US-09-872-505-3	Sequence 3, Appli
25	77	100.0	404	16	US-10-620-246-172	Sequence 172, App
26	66	85.7	20	9	US-09-813-333-61	Sequence 61, Appl
27	66	85.7	20	13	US-10-044-703-61	Sequence 61, Appl
28	66	85.7	20	15	US-10-239-103-61	Sequence 61, Appl
29	60	77.9	13	9	US-09-813-333-59	Sequence 59, Appl
30	60	77.9	13	13	US-10-044-703-59	Sequence 59, Appl
31	60	77.9	13	15	US-10-239-103-59	Sequence 59, Appl
32	54	70.1	15	14	US-10-079-167-79	Sequence 79, Appl
33	54	70.1	15	15	US-10-345-000-1	Sequence 1, Appli
34	46	59.7	122	16	US-10-425-115-201779	Sequence 201779,
35	46	59.7	207	16	US-10-425-115-201777	Sequence 201777,
36	43	55.8	158	16	US-10-425-115-264053	Sequence 264053,
37	43	55.8	324	16	US-10-767-701-40957	Sequence 40957, A
38	43	55.8	400	15	US-10-369-493-21850	Sequence 21850, A
39	42.5	55.2	141	15	US-10-389-647-560	Sequence 560, App
40	42	54.5	409	15	US-10-289-762-554	Sequence 554, App
41	42	54.5	515	16	US-10-425-115-201780	Sequence 201780,
42	42	54.5	1447	16	US-10-437-963-133273	Sequence 133273,
43	41	53.2	93	16	US-10-437-963-108079	Sequence 108079,
44	41	53.2	149	15	US-10-264-213-168	Sequence 168, App
45	41	53.2	282	14	US-10-288-930-113	Sequence 113, App

ALIGNMENTS

RESULT 1
US-10-079-167-80
Sequence 80, Application US/10079167
Publication No. US20030138454A1
GENERAL INFORMATION:
APPLICANT: Hill, Adrian V.S.
APPLICANT: McShane, Helen
APPLICANT: Gilbert, Sarah C.
APPLICANT: Reece, William
APPLICANT: Schneider, Joerg
TITLE OF INVENTION: Vaccination Method
FILE REFERENCE: 2907.1000-001
CURRENT APPLICATION NUMBER: US/10/079,167
CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: US 09/454,204
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: PCT/GB98/01681
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: GB 97 11957.2
PRIOR FILING DATE: 1997-06-09
PRIOR APPLICATION NUMBER: PCT/GB01/04116
PRIOR FILING DATE: 2001-09-13
PRIOR APPLICATION NUMBER: GB 00 23203.3
PRIOR FILING DATE: 2001-09-21
NUMBER OF SEQ ID NOS: 99
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 80
LENGTH: 15
TYPE: BPT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: T cell epitope in ESAT6
US-10-079-167-80

Query Match 100.0%; Score 77; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
| | | | | | | | | | | | | | |
Db 1 WNFAGIEAAASAIQG 15

RESULT 2

US-10-345-000-2
; Sequence 2, Application US/10345000
; Publication No. US20040018177A1
; GENERAL INFORMATION:
; APPLICANT: OXON PHARMACINES LIMITED
; TITLE OF INVENTION: VACCINATION METHOD
; FILE REFERENCE: 550-409
; CURRENT APPLICATION NUMBER: US/10/345,000
; CURRENT FILING DATE: 2003-02-20
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-345-000-2

Query Match 100.0%; Score 77; DB 15; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
| | | | | | | | | | | | | | |
Db 1 WNFAGIEAAASAIQG 15

RESULT 3

US-09-813-333-60
; Sequence 60, Application US/09813333
; Patent No. US20020119160A1
; GENERAL INFORMATION:
; APPLICANT: DeGroot, Anne S
; TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004 US
; CURRENT APPLICATION NUMBER: US/09/813,333
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,834
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-813-333-60

Query Match 100.0%; Score 77; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
| | | | | | | | | | | | | | |
Db 2 WNFAGIEAAASAIQG 16

RESULT 4

US-10-044-703-60
; Sequence 60, Application US/10044703
; Publication No. US20020192233A1
; GENERAL INFORMATION:
; APPLICANT: DeGroot, Anne S
; TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004 US

; CURRENT APPLICATION NUMBER: US/10/044,703
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/190,834
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-044-703-60

Query Match 100.0%; Score 77; DB 13; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
| | | | | | | | | | | | | | |
Db 2 WNFAGIEAAASAIQG 16

RESULT 5

US-10-239-103-60
; Sequence 60, Application US/10239103
; Publication No. US20040057961A1
; GENERAL INFORMATION:
; APPLICANT: Brown University Research Foundation
; APPLICANT: DeGroot, Anne S
; TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004-061
; CURRENT APPLICATION NUMBER: US/10/239,103
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 09/813,333
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,834
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-239-103-60

Query Match 100.0%; Score 77; DB 15; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
| | | | | | | | | | | | | | |
Db 2 WNFAGIEAAASAIQG 16

RESULT 6

US-09-886-349A-33
; Sequence 33, Application US/09886349A
; Publication No. US20040086523A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Reed, Steven
; APPLICANT: Alderson, Mark
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
; FILE REFERENCE: 014058-009070US
; CURRENT APPLICATION NUMBER: US/09/886,349A
; CURRENT FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 09/597,796
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 60/265,737
; PRIOR FILING DATE: 2001-02-01
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33

;
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: ESAT-6
US-09-886-349A-33

Query Match 100.0%; Score 77; DB 11; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
|||||
Db 6 WNFAGIEAAASAIQG 20

RESULT 7
US-10-193-002-99
; Sequence 99, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonia
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.

;
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092

;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 99:

US-10-193-002-99

Query Match 100.0%; Score 77; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15

Db 6 WNFAGIEAAASAIQG 20
|||||

RESULT 8

US-10-084-843-104
; Sequence 104, Application US/10084843
; Publication No. US20030143243A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.

;
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 104:

US-10-084-843-104

Query Match 100.0%; Score 77; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15

Db 6 WNFAGIEAAASAIQG 20

RESULT 9

US-10-098-732A-33
; Sequence 33, Application US/10098732A
; Publication No. US20030175294A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; Brannon, Mark
; APPLICANT: Guderian, Jeffrey

US-10-098-732A-33

Query Match 100.0%; Score 77; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15

Db 6 WNFAGIEAAASAIQG 20

```
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
; FILE REFERENCE: Leishmania Antigen
; CURRENT APPLICATION NUMBER: US/10/098,732A
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: US 60/275,837
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: ESAT-6
US-10-098-732A-33

Query Match          100.0%; Score 77; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 WNFAGIEAAASAIQG 15
        |||||
Db       6 WNFAGIEAAASAIQG 20
        |||||

RESULT 10
US-11-028-898-104
; Sequence 104, Application US/11028898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
;           Skeiky, Yasir A.W.
;           Dillon, Davin C.
;           Campos-Neto, Antonio
;           Houghton, Raymond
;           Vedvick, Thomas S.
;           Twardzik, Daniel R.
;           Lodes, Michael J.
;           Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
;                   AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/028,898
; FILING DATE: 03-Jan-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 03-Jan-2005
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 104:

Query Match          100.0%; Score 77; DB 20; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 WNFAGIEAAASAIQG 15
        |||||
Db       6 WNFAGIEAAASAIQG 20
        |||||

RESULT 11
US-11-082-005-99
; Sequence 99, Application US/11082005
; Publication No. US20050181419A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
;           Skeiky, Yasir A.W.
;           Dillon, Davin C.
;           Campos-Neto, Antonia
;           Houghton, Raymond
;           Vedvick, Thomas S.
;           Twardzik, Daniel R.
;           Lodes, Michael J.
;           Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
;                   TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/082,005
; FILING DATE: 15-Mar-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 99:
US-11-082-005-99

Query Match          100.0%; Score 77; DB 20; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 WNFAGIEAAASAIQG 15
        |||||
Db       6 WNFAGIEAAASAIQG 20
        |||||
```

```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 104:
US-11-028-898-104

Query Match          100.0%; Score 77; DB 20; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 WNFAGIEAAASAIQG 15
        |||||
Db       6 WNFAGIEAAASAIQG 20
        |||||

RESULT 11
US-11-082-005-99
; Sequence 99, Application US/11082005
; Publication No. US20050181419A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
;           Skeiky, Yasir A.W.
;           Dillon, Davin C.
;           Campos-Neto, Antonia
;           Houghton, Raymond
;           Vedvick, Thomas S.
;           Twardzik, Daniel R.
;           Lodes, Michael J.
;           Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
;                   TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/082,005
; FILING DATE: 15-Mar-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 99:
US-11-082-005-99

Query Match          100.0%; Score 77; DB 20; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 WNFAGIEAAASAIQG 15
        |||||
Db       6 WNFAGIEAAASAIQG 20
        |||||
```


Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
|||||

Db 6 WNFAGIEAAASAIQG 20

RESULT 12

US-09-805-427A-1

; Sequence 1, Application US/09805427A

; Patent No. US20020176867A1

; GENERAL INFORMATION:

; APPLICANT: Statens Serum Institut

; TITLE OF INVENTION: Hybrids of M. tuberculosis Antigens

; FILE REFERENCE: 670001-2002.5

; CURRENT APPLICATION NUMBER: US/09/805,427A

; CURRENT FILING DATE: 2001-03-13

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 1

; LENGTH: 95

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-09-805-427A-1

Query Match 100.0%; Score 77; DB 9; Length 95;

Best Local Similarity 100.0%; Pred. No. 2.3e-05;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
|||||

Db 6 WNFAGIEAAASAIQG 20

RESULT 13

US-09-872-505-1

; Sequence 1, Application US/09872505

; Publication No. US20040013685A1

; GENERAL INFORMATION:

; APPLICANT: Statens Serum Institut

; TITLE OF INVENTION: Nucleic Acid Fragments Derived From M. Tuberculosis

; FILE REFERENCE: 670001-2002.6

; CURRENT APPLICATION NUMBER: US/09/872,505

; CURRENT FILING DATE: 2001-06-01

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 1

; LENGTH: 95

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-09-872-505-1

Query Match 100.0%; Score 77; DB 11; Length 95;

Best Local Similarity 100.0%; Pred. No. 2.3e-05;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
|||||

Db 6 WNFAGIEAAASAIQG 20

RESULT 14

US-10-332-512A-12

; Sequence 12, Application US/10332512A

; Publication No. US20040180056A1

; GENERAL INFORMATION:

; APPLICANT: ORME, Ian M.

; APPLICANT: BELISLE, John T.

; TITLE OF INVENTION: MID-LIFE VACCINE AND METHODS FOR BOOSTING ANTI-MYCOBACTERIAL IMM

; FILE REFERENCE: 38861-186292

; CURRENT APPLICATION NUMBER: US/10/332,512A

; CURRENT FILING DATE: 2003-01-10

; PRIOR APPLICATION NUMBER: PCT/US01/21717

; PRIOR FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: US 60/217,646

; NUMBER OF SEQ ID NOS: 31

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 12

; LENGTH: 95

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-10-332-512A-12

Query Match 100.0%; Score 77; DB 16; Length 95;

Best Local Similarity 100.0%; Pred. No. 2.3e-05;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
|||||

Db 6 WNFAGIEAAASAIQG 20

RESULT 15

US-10-689-921-18

; Sequence 18, Application US/10689921

; Publication No. US20040146948A1

; GENERAL INFORMATION:

; APPLICANT: Britton, Warwick

; APPLICANT: Demangel, Caroline

; TITLE OF INVENTION: Compositions and Methods for Targeting

; TITLE OF INVENTION: Antigen-Presenting Cells With Antibody Single-Chain Variable

; FILE REFERENCE: 13311.1002U

; CURRENT APPLICATION NUMBER: US/10/689,921

; CURRENT FILING DATE: 2003-10-17

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 18

; LENGTH: 95

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-10-689-921-18

Query Match 100.0%; Score 77; DB 18; Length 95;

Best Local Similarity 100.0%; Pred. No. 2.3e-05;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQG 15
|||||

Db 6 WNFAGIEAAASAIQG 20

Search completed: August 27, 2005, 00:21:35

Job time : 112.5 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 23:40:16 ; Search time 30 Seconds
(without alignments)
37.325 Million cell updates/sec

Title: US-09-830-839-6

Perfect score: 77

Sequence: 1 WNFAGIEAAASAIQ 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
- 2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
- 3: /cgn2_6/prodata/1/1aa/6A_COMB.pep:*
- 4: /cgn2_6/prodata/1/1aa/6B_COMB.pep:*
- 5: /cgn2_6/prodata/1/1aa/PTUS_COMB.pep:*
- 6: /cgn2_6/prodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	77	100.0	51	3	US-08-818-112-104
2	77	100.0	51	3	US-08-818-111-99
3	77	100.0	51	3	US-09-056-556-104
4	77	100.0	51	4	US-09-072-596-99
5	77	100.0	51	4	US-09-072-967-104
6	77	100.0	95	2	US-08-465-640-2
7	77	100.0	403	4	US-09-050-739-173
8	77	100.0	404	4	US-09-050-739-172
9	42.5	55.2	556	4	US-09-252-991A-17793
10	42	54.5	116	4	US-09-252-991A-13488
11	42	54.5	409	4	US-09-198-452A-554
12	42	54.5	413	4	US-09-438-185A-515
13	41	53.2	149	4	US-09-634-238-265
14	41	53.2	282	4	US-09-724-623-113
15	40	51.9	2293	3	US-09-368-590-2
16	40	51.9	2600	4	US-09-949-016-7309
17	39	50.6	221	4	US-09-904-615-155
18	39	50.6	413	4	US-09-252-991A-29788
19	39	50.6	1138	4	US-09-489-039A-13574
20	38	49.4	185	4	US-09-489-039A-11336
21	38	49.4	349	4	US-09-489-039A-13578
22	38	49.4	365	4	US-09-252-991A-30166
23	38	49.4	418	3	US-09-202-893B-4
24	38	49.4	435	4	US-09-252-991A-23220
25	37	48.1	209	4	US-09-252-991A-24013
26	37	48.1	360	3	US-09-509-902A-9
27	37	48.1	472	4	US-09-902-540-15461

28	37	48.1	475	4	US-09-252-991A-20838	Sequence 20838, A
29	37	48.1	898	4	US-09-902-540-11561	Sequence 11561, A
30	37	48.1	947	4	US-09-252-991A-21335	Sequence 21335, A
31	37	48.1	981	4	US-09-902-540-9848	Sequence 9848, Ap
32	37	48.1	1138	4	US-09-252-991A-25952	Sequence 25952, A
33	37	48.1	1223	4	US-09-538-092-777	Sequence 777, App
34	36	46.8	294	4	US-09-489-039A-10933	Sequence 10933, A
35	36	46.8	323	4	US-09-489-039A-13907	Sequence 13907, A
36	36	46.8	328	4	US-09-489-039A-10986	Sequence 10986, A
37	36	46.8	368	4	US-09-489-039A-13753	Sequence 13753, A
38	36	46.8	389	4	US-09-489-039A-8540	Sequence 8540, Ap
39	36	46.8	429	4	US-09-134-000C-3817	Sequence 3817, Ap
40	36	46.8	483	4	US-09-489-039A-13018	Sequence 13018, A
41	36	46.8	578	4	US-09-949-016-9799	Sequence 9799, Ap
42	36	46.8	630	4	US-09-248-796A-25512	Sequence 25512, A
43	36	46.8	759	4	US-09-902-540-16161	Sequence 16161, A
44	36	46.8	1534	4	US-09-543-681A-5182	Sequence 5182, Ap
45	35.5	46.1	467	4	US-09-252-991A-29729	Sequence 29729, A

ALIGNMENTS

RESULT 1
US-08-818-112-104
; Sequence 104, Application US/08818112
; Patent No. 6290969
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/818,112
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-818-112-104

Query Match 100.0%; Score 77; DB 3; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-99

Query Match 100.0%; Score 77; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQ 15
|||||

Db 6 WNFAGIEAAASAIQ 20
|||||

RESULT 5
US-09-072-967-104
Sequence 104, Application US/09072967
Patent No. 6592877

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 104:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-104

Query Match 100.0%; Score 77; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQ 15
|||||

Db 6 WNFAGIEAAASAIQ 20
|||||

RESULT 6
US-08-465-640-2
Sequence 2, Application US/08465640
Patent No. 5955077
GENERAL INFORMATION:
APPLICANT: ANDERSEN, Peter
APPLICANT: ANDERSEN, Ase Bengaard
APPLICANT: HASLOV, Kaare
APPLICANT: SORENSEN, Anne Lund
TITLE OF INVENTION: TUBERCULOSIS VACCINE
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Browdy and Neimark
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,640
FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,182
FILING DATE: 20-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/DK94/00273
FILING DATE: 01-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, IVER P
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: ANDERSEN-3A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-640-2

Query Match 100.0%; Score 77; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQ 15
|||||

Db 6 WNFAGIEAAASAIQ 20
|||||

RESULT 7
US-09-050-739-173
Sequence 173, Application US/09050739
Patent No. 6641814

GENERAL INFORMATION:
APPLICANT: ANDERSEN, Peter
APPLICANT: NIELSEN, Rikke
APPLICANT: OETTINGER, Thomas
APPLICANT: RASMUSSEN, Peter Birk
APPLICANT: ROSENKRANDS, Ida
APPLICANT: WELDDINGH, Karin
APPLICANT: FLORIO, Walter
TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS

; TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/050,739
; CURRENT FILING DATE: 1998-03-30
; EARLIER APPLICATION NUMBER: 0376/97
; EARLIER FILING DATE: 1997-04-02
; EARLIER APPLICATION NUMBER: 1277/97
; EARLIER FILING DATE: 1997-11-10
; EARLIER APPLICATION NUMBER: 60/044,624
; EARLIER FILING DATE: 1997-04-18
; EARLIER APPLICATION NUMBER: 60/070,488
; EARLIER FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 173
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-050-739-173

Query Match 100.0%; Score 77; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQ 15
|||||
DB 27 WNFAGIEAAASAIQ 41

RESULT 8
US-09-050-739-172
; Sequence 172, Application US/09050739
; Patent No. 6641814
; GENERAL INFORMATION:
; APPLICANT: ANDERSEN, Peter
; APPLICANT: NIELSEN, Rikke
; APPLICANT: OETTINGER, Thomas
; APPLICANT: RASMUSSEN, Peter Birk
; APPLICANT: ROSENKRANDS, Ida
; APPLICANT: WELDINGH, Karin
; APPLICANT: FLORIO, Walter
; TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS
; TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/050,739
; CURRENT FILING DATE: 1998-03-30
; EARLIER APPLICATION NUMBER: 0376/97
; EARLIER FILING DATE: 1997-04-02
; EARLIER APPLICATION NUMBER: 1277/97
; EARLIER FILING DATE: 1997-11-10
; EARLIER APPLICATION NUMBER: 60/044,624
; EARLIER FILING DATE: 1997-04-18
; EARLIER APPLICATION NUMBER: 60/070,488
; EARLIER FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 172
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-050-739-172

Query Match 100.0%; Score 77; DB 4; Length 404;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQ 15
|||||
DB 315 WNFAGIEAAASAIQ 329

RESULT 9
US-09-252-991A-17793

; Sequence 17793, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17793
; LENGTH: 556
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17793

Query Match 55.2%; Score 42.5; DB 4; Length 556;
Best Local Similarity 40.9%; Pred. No. 30;
Matches 9; Conservative 2; Mismatches 4; Indels 7; Gaps 1;

QY 1 WN-----FAGIEAAASAIQ 15
|||:||||:|
DB 534 WNPLRHLEALGGVEAAKIVQG 555

RESULT 10
US-09-902-540-13488
; Sequence 13488, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 13488
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-13488

Query Match 54.5%; Score 42; DB 4; Length 116;
Best Local Similarity 50.0%; Pred. No. 5.8;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 WNFAGIEAAASAIQ 14
|||:||||:|
DB 37 WNTRGLEAAEAQV 50

RESULT 11
US-09-198-452A-554
; Sequence 554, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849

```
/ SEQ ID NO 554
/ LENGTH: 409
/ TYPE: PRT
/ ORGANISM: Chlamydia pneumoniae
US-09-198-452A-554

Query Match      54.5%; Score 42; DB 4; Length 409;
Best Local Similarity 77.8%; Pred. No. 25;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WNPAGIEAA 9
Db 345 WNYLGIEAA 353

RESULT 12
US-09-438-185A-515
/ Sequence 515, Application US/09438185A
/ Patent No. 6822071
/ GENERAL INFORMATION:
/ APPLICANT: Stephens, Richard
/ APPLICANT: Mitchell, Wayne
/ APPLICANT: Kalman, Sue
/ APPLICANT: Davis, Ronald
/ APPLICANT: The Regents of the University of California
/ TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
/ FILE REFERENCE: 018941-000411US
/ CURRENT APPLICATION NUMBER: US/09/438,185A
/ CURRENT FILING DATE: 2002-03-13
/ PRIOR APPLICATION NUMBER: US 60/108,279
/ PRIOR FILING DATE: 1998-11-12
/ PRIOR APPLICATION NUMBER: US 60/128,606
/ PRIOR FILING DATE: 1999-04-08
/ NUMBER OF SEQ ID NOS: 1074
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 515
/ LENGTH: 413
/ TYPE: PRT
/ ORGANISM: Chlamydia pneumoniae
/ FEATURE:
/ OTHER INFORMATION: CPN0513
US-09-438-185A-515

Query Match      54.5%; Score 42; DB 4; Length 413;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WNPAGIEAA 9
Db 349 WNYLGIEAA 357

RESULT 13
US-09-634-238-265
/ Sequence 265, Application US/09634238
/ Patent No. 6544772
/ GENERAL INFORMATION:
/ APPLICANT: Glenn, Matthew
/ APPLICANT: Havukkala, Ilkka J.
/ APPLICANT: Bloksberg, Leonard, N.
/ APPLICANT: Lubbers, Mark W.
/ APPLICANT: Dekker, James
/ APPLICANT: Christenson, Anna C.
/ APPLICANT: Holland, Ross
/ APPLICANT: O'Toole, Paul W.
/ APPLICANT: Reid, Julian R.
/ APPLICANT: Coolbear, Timothy
/ TITLE OF INVENTION: Polynucleotides, materials incorporating
/ TITLE OF INVENTION: them and methods for using them.
/ FILE REFERENCE: 11000.1043U1
/ CURRENT APPLICATION NUMBER: US/09/634,238
/ CURRENT FILING DATE: 2000-08-08
/ NUMBER OF SEQ ID NOS: 422

/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 265
/ LENGTH: 149
/ TYPE: PRT
/ ORGANISM: Lactobacillus rhamnosus
US-09-634-238-265

Query Match      53.2%; Score 41; DB 4; Length 149;
Best Local Similarity 57.1%; Pred. No. 12;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 NPAGEIAAASAIQ 15
Db 67 NIAGVEAAAGLFG 80

RESULT 14
US-09-724-623-113
/ Sequence 113, Application US/09724623
/ Patent No. 6476209
/ GENERAL INFORMATION:
/ APPLICANT: Glenn, Matthew
/ APPLICANT: Lubbers, Mark W
/ APPLICANT: Dekker, James
/ APPLICANT: Polynucleotides, materials incorporating
/ TITLE OF INVENTION: them, and methods for using them.
/ FILE REFERENCE: 1048U1
/ CURRENT APPLICATION NUMBER: US/09/724,623
/ CURRENT FILING DATE: 2000-11-28
/ NUMBER OF SEQ ID NOS: 124
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 113
/ LENGTH: 282
/ TYPE: PRT
/ ORGANISM: Lactobacillus rhamnosus
US-09-724-623-113

Query Match      53.2%; Score 41; DB 4; Length 282;
Best Local Similarity 57.1%; Pred. No. 25;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 NPAGEIAAASAIQ 15
Db 191 NIAGVEAAAGLFG 204

RESULT 15
US-09-368-590-2
/ Sequence 2, Application US/09368590
/ Patent No. 6187563
/ GENERAL INFORMATION:
/ APPLICANT: Solimena, Michele
/ TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
/ TITLE OF INVENTION: AUTOANTIGENS OF AUTOIMMUNE DISEASES
/ FILE REFERENCE: 101918-200 (OCR-941)
/ CURRENT APPLICATION NUMBER: US/09/368,590
/ CURRENT FILING DATE: 1999-08-04
/ EARLIER APPLICATION NUMBER: 60/095,657
/ EARLIER FILING DATE: 1998-08-07
/ NUMBER OF SEQ ID NOS: 8
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 2
/ LENGTH: 2293
/ TYPE: PRT
/ ORGANISM: Human
US-09-368-590-2

Query Match      51.9%; Score 40; DB 3; Length 2293;
Best Local Similarity 42.9%; Pred. No. 4.3e+02;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 WNPAGIEAAASAIQ 14
Db 191 NIAGVEAAAGLFG 204
```

Db 720 WRLSGLEAALQALE 733

Search completed: August 27, 2005, 00:04:23
Job time : 31 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 26, 2005, 23:58:53 ; Search time 111.5 Seconds
(without alignments)
52.860 Million cell updates/sec

Title: US-09-830-839-1

Perfect score: 79

Sequence: 1 MTEQQMNFAGIEAAA 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PTCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/PTCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/1/pubpaa/US10E_PUBCOMB.pep:*
- 18: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
- 19: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*
- 20: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
- 21: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	ID	Description
1	79	100.0	15	US-10-079-167-79
2	79	100.0	15	US-10-345-000-1
3	79	100.0	51	US-09-886-349A-33
4	79	100.0	51	US-10-193-002-99
5	79	100.0	51	US-10-084-843-104
6	79	100.0	51	US-10-098-732A-33
7	79	100.0	51	US-11-028-898-104
8	79	100.0	51	US-11-082-005-99
9	79	100.0	95	US-09-805-427A-1
10	79	100.0	95	US-09-872-505-1
11	79	100.0	95	US-10-332-512A-12

12	79	100.0	95	18	US-10-689-921-18	Sequence 18, Appl
13	79	100.0	403	9	US-09-791-171-173	Sequence 173, App
14	79	100.0	403	9	US-09-805-427A-4	Sequence 4, Appli
15	79	100.0	403	10	US-09-804-980-173	Sequence 173, App
16	79	100.0	403	11	US-09-872-505-4	Sequence 4, Appli
17	79	100.0	403	16	US-10-620-246-173	Sequence 173, App
18	79	100.0	404	9	US-09-791-171-172	Sequence 172, App
19	79	100.0	404	9	US-09-805-427A-3	Sequence 3, Appli
20	79	100.0	404	10	US-09-804-980-172	Sequence 172, App
21	79	100.0	404	11	US-09-872-505-3	Sequence 3, Appli
22	79	100.0	404	16	US-10-620-246-172	Sequence 172, App
23	59	74.7	20	9	US-09-813-333-60	Sequence 60, Appl
24	59	74.7	20	13	US-10-044-703-60	Sequence 60, Appl
25	59	74.7	20	15	US-10-239-103-60	Sequence 60, Appl
26	54	68.4	15	14	US-10-079-167-80	Sequence 80, Appl
27	54	68.4	15	15	US-10-345-000-2	Sequence 2, Appli
28	48	60.8	893	15	US-10-282-122A-69721	Sequence 69721, A
29	43	54.4	13	9	US-09-813-333-59	Sequence 59, Appl
30	43	54.4	13	13	US-10-044-703-59	Sequence 59, Appl
31	43	54.4	13	15	US-10-239-103-59	Sequence 59, Appl
32	43	54.4	20	9	US-09-813-333-61	Sequence 61, Appl
33	43	54.4	20	13	US-10-044-703-61	Sequence 61, Appl
34	43	54.4	20	15	US-10-239-103-61	Sequence 61, Appl
35	43	54.4	911	15	US-10-282-122A-51365	Sequence 51365, A
36	42	53.2	409	15	US-10-289-762-554	Sequence 554, App
37	42	53.2	539	15	US-10-369-493-16773	Sequence 16773, A
38	41	51.9	117	16	US-10-425-115-185330	Sequence 185330,
39	41	51.9	176	14	US-10-339-278-3	Sequence 3, Appli
40	41	51.9	249	16	US-10-425-115-346310	Sequence 346310,
41	41	51.9	445	15	US-10-282-122A-76999	Sequence 76999, A
42	40	50.6	74	16	US-10-425-115-193261	Sequence 193261,
43	40	50.6	295	9	US-09-738-626-4782	Sequence 4782, Ap
44	40	50.6	939	15	US-10-282-122A-68011	Sequence 68011, A
45	39	49.4	101	16	US-10-767-701-42935	Sequence 42935, A

ALIGNMENTS

RESULT 1
US-10-079-167-79
; Sequence 79, Application US/10079167
; Publication No. US20030138454A1
; GENERAL INFORMATION:
; APPLICANT: Hill, Adrian V.S.
; APPLICANT: McShane, Helen
; APPLICANT: Gilbert, Sarah C.
; APPLICANT: Reese, William
; APPLICANT: Schneider, Joerg
; TITLE OF INVENTION: Vaccination Method
; FILE REFERENCE: 2907 1000-001
; CURRENT APPLICATION NUMBER: US/10/079,167
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/454,204
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: PCT/GB98/01681
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: GB 97 11957.2
; PRIOR FILING DATE: 1997-06-09
; PRIOR APPLICATION NUMBER: PCT/GB01/04116
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: GB 00 23203.3
; PRIOR FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: T cell epitope in ESAt6
US-10-079-167-79

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
| | | | | | | | | | | | | | |
DB 1 MTEQQWNFAGIEAAA 15

RESULT 2

US-10-345-000-1
; Sequence 1, Application US/10345000
; Publication No. US20040018177A1
; GENERAL INFORMATION:
; APPLICANT: OXON PHARMACEUTICALS LIMITED
; TITLE OF INVENTION: VACCINATION METHOD
; FILE REFERENCE: 550-409
; CURRENT APPLICATION NUMBER: US/10/345,000
; CURRENT FILING DATE: 2003-02-20
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-345-000-1

Query Match 100.0%; Score 79; DB 15; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
| | | | | | | | | | | | | | |
DB 1 MTEQQWNFAGIEAAA 15

RESULT 3

US-09-886-349A-33
; Sequence 33, Application US/09886349A
; Publication No. US20040086523A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Reed, Steven
; APPLICANT: Alderson, Mark
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Fusion Proteins of Mycobacterium Tuberculosis
; FILE REFERENCE: 014058-009070US
; CURRENT APPLICATION NUMBER: US/09/886,349A
; CURRENT FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 09/597,796
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 60/265,737
; PRIOR FILING DATE: 2001-02-01
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: ESAT-6
US-09-886-349A-33

Query Match 100.0%; Score 79; DB 11; Length 51;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
| | | | | | | | | | | | | | |
DB 1 MTEQQWNFAGIEAAA 15

RESULT 4

US-10-193-002-99
; Sequence 99, Application US/10193002
; Publication No. US20030135026A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; TUBERCULOSIS
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/193,002
; FILING DATE: 10-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 99:
US-10-193-002-99

Query Match 100.0%; Score 79; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
| | | | | | | | | | | | | | |
DB 1 MTEQQWNFAGIEAAA 15

RESULT 5

US-10-084-843-104
; Sequence 104, Application US/10084843
; Publication No. US20030143243A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; Skeiky, Yasir A.W.
; Dillon, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.

;
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 104:
US-10-084-843-104

Query Match 100.0%; Score 79; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
|||||
DB 1 MTEQQWNFAGIEAAA 15

RESULT 6
US-10-098-732A-33
; Sequence 33, Application US/10098732A
; Publication No. US20030175294A1
; GENERAL INFORMATION:
; APPLICANT: Skeiky, Yasir
; APPLICANT: Brannon, Mark
; APPLICANT: Guderian, Jeffrey
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Heterologous Fusion Protein Constructs Comprising a
; FILE REFERENCE: 014058-012010US
; CURRENT APPLICATION NUMBER: US/10/098,732A
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: US 60/275,837
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 33
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: ESAT-6
US-10-098-732A-33

Query Match 100.0%; Score 79; DB 14; Length 51;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
|||||
DB 1 MTEQQWNFAGIEAAA 15

RESULT 7
US-11-028-898-104
; Sequence 104, Application US/11028898
; Publication No. US20050136069A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; ADDRESSEE: Skeiky, Yasir A.W.
; DILLON, Davin C.
; Campos-Neto, Antonio
; Houghton, Raymond
; Vedvick, Thomas S.
; Twardzik, Daniel R.
; Lodes, Michael J.
; Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/028,898
FILING DATE: 03-Jan-2005
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/084,843
FILING DATE: 03-Jan-2005
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 104:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 104:

US-11-028-898-104

Query Match 100.0%; Score 79; DB 20; Length 51;
Best Local Similarity 100.0%; Pred. No. 4.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQQWNFAGIEAAA 15
|||||
DB 1 MTEQQWNFAGIEAAA 15

Db 1 MTEQOWNFAGIEAAA 15

RESULT 12

US-10-689-921-18
; Sequence 18, Application US/10689921
; Publication No. US20040146948A1
; GENERAL INFORMATION:
; APPLICANT: Demangel, Caroline
; APPLICANT: Britton, Warwick
; TITLE OF INVENTION: Compositions and Methods for Targeting
; TITLE OF INVENTION: Antigen-Presenting Cells With Antibody Single-Chain Variable
; FILE REFERENCE: 13311.1002U
; CURRENT APPLICATION NUMBER: US/10/689,921
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-689-921-18

Query Match 100.0%; Score 79; DB 18; Length 95;
Best Local Similarity 100.0%; Pred. No. 8.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15

Db 1 MTEQOWNFAGIEAAA 15

RESULT 13

US-09-791-171-173
; Sequence 173, Application US/09791171
; Patent No. US20020094336A1
; GENERAL INFORMATION:
; APPLICANT: ANDERSEN, Peter
; APPLICANT: NIELSEN, Rikke
; APPLICANT: OETTINGER, Thomas
; APPLICANT: RASMUSSEN, Peter Birk
; APPLICANT: ROSENKRANDS, Ida
; APPLICANT: WELDINGH, Karin
; APPLICANT: FLORIO, Walter
; TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS
; TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/791,171
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 09/050,739
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 0376/97
; PRIOR FILING DATE: 1997-04-02
; PRIOR APPLICATION NUMBER: 1277/97
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/044,624
; PRIOR FILING DATE: 1997-04-18
; PRIOR APPLICATION NUMBER: 60/070,488
; PRIOR FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 173
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-791-171-173

Query Match 100.0%; Score 79; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15

Db 22 MTEQOWNFAGIEAAA 36

RESULT 14

US-09-805-427A-4
; Sequence 4, Application US/09805427A
; Patent No. US20020176867A1
; GENERAL INFORMATION:
; APPLICANT: Statens Serum Institut
; TITLE OF INVENTION: Hybrids of M. tuberculosis Antigens
; FILE REFERENCE: 670001-2002.5
; CURRENT APPLICATION NUMBER: US/09/805,427A
; CURRENT FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Recombinant Fusion protein ESAT-6-Ag85B
US-09-805-427A-4

Query Match 100.0%; Score 79; DB 9; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15

Db 22 MTEQOWNFAGIEAAA 36

RESULT 15

US-09-804-980-173
; Sequence 173, Application US/09804980
; Publication No. US20030147897A1
; GENERAL INFORMATION:
; APPLICANT: Statens Serum Institut
; APPLICANT: Anderson, Peter
; TITLE OF INVENTION: M. Tuberculosis Antigens
; FILE REFERENCE: 670001-2002.4
; CURRENT APPLICATION NUMBER: US/09/804,980
; CURRENT FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 257
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 173
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-804-980-173

Query Match 100.0%; Score 79; DB 10; Length 403;
Best Local Similarity 100.0%; Pred. No. 3.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTEQOWNFAGIEAAA 15

Db 22 MTEQOWNFAGIEAAA 36

Search completed: August 27, 2005, 00:21:34
Job time : 112.5 secs

THIS PAGE BLANK (USPTO)